

23 August 1955

## MEMORANDUM FOR THE RECORD

SUBJECT: Drilling Meeting on 12 August 1955 in the Engineering Division Conference Room

PURPOSE: To Decide on the Location of a Facility for Drilling Tests and Demonstrations

PRESENT: CD -  
APD -  
ASD -  
ED -

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1. The first point for discussion was the comparative advantages of [redacted] There was general agreement that future construction for this project should be concentrated at one of these locations so that the work of the various groups can be coordinated and so that duplication can be avoided. [redacted] said that [redacted] had been used in the past mostly because of the availability of walls to work on. [redacted] also has a slight edge in the facilities for overnight visits. However, the overriding considerations were the fact that contractor representatives could visit only [redacted] and the fact that the operating contractor at [redacted] can provide a positive carry over of the facility construction and actual test work between visits of our project engineers. Therefore the group agreed to go ahead with [redacted] as the site for the construction of test walls. However, the consensus of opinion was that [redacted] should still be used for limited testing where new construction is not involved if it happens to be more convenient.

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2. The next point was concerned with the actual construction of the test wall. Many opinions were exchanged on the effect on drilling changes in chemical composition, mixing techniques and proportions, and the age of the structure. There was also much discussion upon whether the test walls should represent the most difficult conditions or whether an attempt should be made to produce a range by constructing walls of varying degrees of difficulty. The problems of producing such a range were also expressed.

It was decided that the range would be provided by duplicating varying types of U. S. construction and the walls [redacted] would be duplicated according to specifications submitted by the area divisions.

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For the most part the walls will be without voids and of only one type of construction (rather than layers of finish plaster, rough plaster, brick, void etc) except that APD agreed to provide complete specifications.

108632

DOC 9	REV DATE 22 July 80	BY 057447
ORIG COMP 256	OPI 56	TYPE 08
CRIG CLASS 5	PAGES 2	REV CLASS C
JUST 22	NEXT REV 2010	AUTH: HR 70-2

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on the construction of a wall containing voids for test of their instruments.

[REDACTED]

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3. Near the end of the meeting, [REDACTED] joined the group to answer some specific questions.

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[REDACTED]

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b. Complete information on the details of construction should be obtained by request to the area divisions. ED agreed to send the necessary dispatches and to request small samples or chemical analysis in addition to construction details.

c. There is a definite requirement for a unit (high speed drill or other) to penetrate the last inch of plaster without causing cracks on the other side.

d. He clarified ASD'S position with respect to a possible crash program to procure, test and evaluate presently used drilling equipment for shipment to the field. Since the people in the field have been getting along with their own methods and are likely to do so in the near future, he felt that the greatest value of TSS efforts will be in the longer term work by contractors using this approach and others. He would however be glad to have equipment sent to the field for test if TSS comes across some promising techniques.

[REDACTED]

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DD/P/TSS/ED/RED:at

**Distribution:**

- Orig - ED-131, DRILLING EQUIPMENT
- 1 - CD
- 1 - ASD
- 1 - APD

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